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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/026,950	12/27/2001	Seiji Yaegashi	33035M084	7336
7:	590 02/04/2003		•	
SMITH, GAMBRELL & RUSSELL, LLP SUITE 800 1850 M STREET, N.W.			EXAMINER	
			BAUMEISTER, BRADLEY W	
WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			2815	/-
			DATE MAILED: 02/04/2003	0

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No. 10/026,950 Applicant(s)

Yaegashi et al.

Examiner

**B.** William Baumeister

Art Unit 2815

13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some* c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  11 Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s).  5) Notice of Informal Patent Application (PTO-152)		The MAILING DATE of this communication appears	on the cover sheet with the correspondence address			
THE MAILING DATE OF THIS COMMUNICATION.  Extension of time may be available under the provisors of 3 CFR 1.13 (e). In no event, however, may a righy be (rinely filed after SD. (e) MONTHS from the malling date of this communication.  If the period for with specified above in a less than the five (Did deny, easy, white the scrittery notion of sirry (30) days will be considered trively.  If the period for with specified above in a less than the provisor of a communication of sirry (30) days will be considered trively.  If the period for with specified above in a less than the provisor and communication of sirry (10) days will be considered trively.  If the period for with specified above in the second communication of sirry (10) days will be considered trively.  Failur to right yield the second communication of the provisor of the specified and second and seco		for Reply				
maling date of this communication.  If the period trey by specified above is less than thirty (30) days, a righty within the statutory minimum of theiry (30) days will be considered timely.  If No period for may's specified above, the maximum statutory ported will apply and will rights (30) days will be considered timely.  If No period for may's specified above, the maximum statutory ported will apply and will rights (30) days (31)	THE MAILING DATE OF THIS COMMUNICATION.					
Status    1     Responsive to communication(s) filed on   Dec 27, 2001     2a    This action is FINAL.   2b    This action is non-final.     3    Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.    Disposition of Claims   1-20	mailing - If the p - If NO p - Failure - Any re	g date of this communication.  Deriod for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the process.	he statutory minimum of thirty (30) days will be considered timely. and will expire SIX (6) MONTHS from the mailing date of this communication. he application to become ABANDONED (35 U.S.C. § 133).			
2a) ☐ This action is FINAL. 2b ☑ This action is non-final.  3] ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.  Disposition of Claims  4 ☑ Claim(s)						
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-20   is/are pending in the application.  4a) Of the above, claim(s)   is/are withdrawn from consideration.  5)   Claim(s)   is/are withdrawn from consideration.  6)   Claim(s)   is/are allowed.  7)   Claim(s)   is/are rejected.  7)   Claim(s)   is/are objected to.  8)   Claims 1-20   are subject to restriction and/or election requirement.  Application Papers  9)   The specification is objected to by the Examiner.  10)   The drawing(s) filed on   is/are a)   accepted or   b)   objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)   The proposed drawing correction filed on   is a)   approved   objected to by the Examiner   fl approved, corrected drawings are required in reply to this Office action.  12)   The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)   Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)   All   b)   Some* c    None of:  1.   Certified copies of the priority documents have been received.  2.   Certified copies of the priority documents have been received in Application No.    3.   Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14)   Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a)   The translation of the foreign language provisional application has been received.  15)   Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.  Attachment(s)     Notice of References Cred (PTO-892)   4   Interview Summary (PTO-413) Paper Notal.	2a) 🗌	This action is <b>FINAL</b> . 2b)   ✓ This act	ion is non-final.			
All   Claim(s)   1-20	3) 🗆					
4a) Of the above, claim(s)   is/are withdrawn from consideration.   5]	Disposit	tion of Claims				
Side	4) 💢	Claim(s) <u>1-20</u>	is/are pending in the application.			
Glaim(s)	4	a) Of the above, claim(s)	is/are withdrawn from consideration.			
Solution	5) 🗆	Claim(s)	is/are allowed.			
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## **DETAILED ACTION**

## Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 15-20, drawn to an HBT, classified in class 257, subclass 197.
  - II. Claims 1-14, drawn to a method of making an HBT, provisionally classified in class 438, subclass 1+.
- 2. The inventions are distinct, each from the other because of the following reasons:

  Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of the Group II invention would not necessarily imply unpatentability of the Group I invention, since the method of the group II invention could be used to make a products that are materially different from those of the Group I invention. For example, as an alternative to producing an HBT having an emitter and base which are composed of a compound semiconductor material, the methods could be used to form a Si<sub>x</sub>Ge<sub>1-x</sub> HBT wherein at least one of the base and emitter is composed of only Si or Ge.
- 3. Because these inventions are distinct for the reasons given above, the inventions have acquired a separate status in the art because of their recognized divergent subject matter as shown

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by their different classification, the search required for Group II is not required for Group I, and/or separate examination would be required, restriction for examination purposes as indicated

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is proper.

4. Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37

CFR 1.143).

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently

named inventors is no longer an inventor of at least one claim remaining in the application. Any

amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the

fee required under 37 CFR 1.17(i).

INFORMATION ON HOW TO CONTACT THE USPTO

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to the examiner, **B. William Baumeister**, at (703) 306-9165. The examiner can normally be reached Monday through Friday, 8:30 a.m. to 5:00 p.m. If the Examiner is not available, the Examiner's supervisor, Mr. Eddie Lee, can be reached at (703) 308-1690. Any inquiry of a general nature or relating to the status of this application or proceeding should be

directed to the Group receptionist whose telephone number is (703) 308-0956.

B. William Baumeister

Patent Examiner, Art Unit 2815

February 1, 2003